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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,777	01/09/2007	Shunichi Osada	0599-0215PUS1	3791
	7590 07/21/200 ART KOLASCH & BI	EXAMINER		
PO BOX 747	CH 3/A 22040 0747	NELSON, MICHAEL B		
FALLS CHURG	CH, VA 22040-0747		ART UNIT	PAPER NUMBER
			1794	
			NOTIFICATION DATE	DELIVERY MODE
			07/21/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)		
	10/575,777	OSADA ET AL.		
Office Action Summary	Examiner	Art Unit		
	MICHAEL B. NELSON	1794		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be till apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on <u>04 M</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under <u>B</u>	s action is non-final. nce except for formal matters, pre			
Disposition of Claims				
4) ☐ Claim(s) 1-8 and 10-18 is/are pending in the a 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8, 10-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate		

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05/04/09 has been entered. Claims 1-8, and 10-18 are currently under examination on the merits.

Examiner's Note

2. Applicant's remarks filed on 05/04/09 to provide evidence that the instant application inherently disclosed using unpolarized light to measure the reflectance of the film is accepted. While the submitted manual is not in English, the examiner assumes that the contents of the manual confirm applicant's assertion. As such the amendment is hereby entered without presenting new matter.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 5, 8 and 10-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Schrenk et al. (U.S. 5,612,820).

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5. Regarding claims 1, 5, 8 and 10-12, Schrenk et al. discloses a multilayer film stack of more than 50 layers (Example 1). The layers have an optical thickness of 0.09 to 0.70 micrometers (C5, L60-65), which, using a refractive index of about 1.5, yields and actual thickness of 0.06 for the lower endpoint (C5, L10-15). The film layers are disclosed as increasing in thickness (C4, L40-50). The amount of unpolarized light (i.e. white light, C8, L10-20) reflected either parallel or normal to the direction of stretching is less than 6% (Fig. 1). The refractive index difference between the two layers is disclosed as being 0.05 or more (C5, L55-65).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any

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evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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- 9. Claims 2-4, 6, 7 and 13-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schrenk et al. (U.S. 5,612,820) as applied to claim 1 above, and further in view of Arends et al. (U.S. 5,360,659).
- 10. Regarding claims 2-4, 6, 7 and 13-18, Schrenk et al. discloses all of the limitations as set forth above. Schrenk et al. also discloses a general gradient in the thickness of the layers however it does not discloses the specific layer thickness profile as instantly claimed. Arends et al. discloses a gradient of layer thicknesses for use in a multilayer, two-component polarizer which is capable of affecting second, third and fourth order reflection (C6, L20-40). Using the 0.111 relative thickness with the lower endpoint of Schrenk et al. would give a thickness of 0.00999 micrometers (@ 10 nanometers) for more than half of the layers. The ratio of thicknesses (thin/thick) between the first B layer and the first A layers falls within the second instant claimed range (i.e. 0.01 to 0.5) and the thickness ratio (thin/thick) of the first B layer to the second A layer falls within the first instant claimed range (i.e. 0.8-1.0). From left to right, the layers of A decrease in thickness, and the layers of B increases towards the center and then decrease back to the other surface

Response to Arguments

11. Applicant's arguments filed on 05/04/09 are considered moot in light of the new grounds of rejection which were necessitated by applicant's amendments.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL B. NELSON whose telephone number is (571) 270-3877. The examiner can normally be reached on Monday through Thursday 6AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Sample can be reached on (571) 272-1376. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David R. Sample/ Supervisory Patent Examiner, Art Unit 1794

/MN/ 05/13/09